Aviation Safety Summary

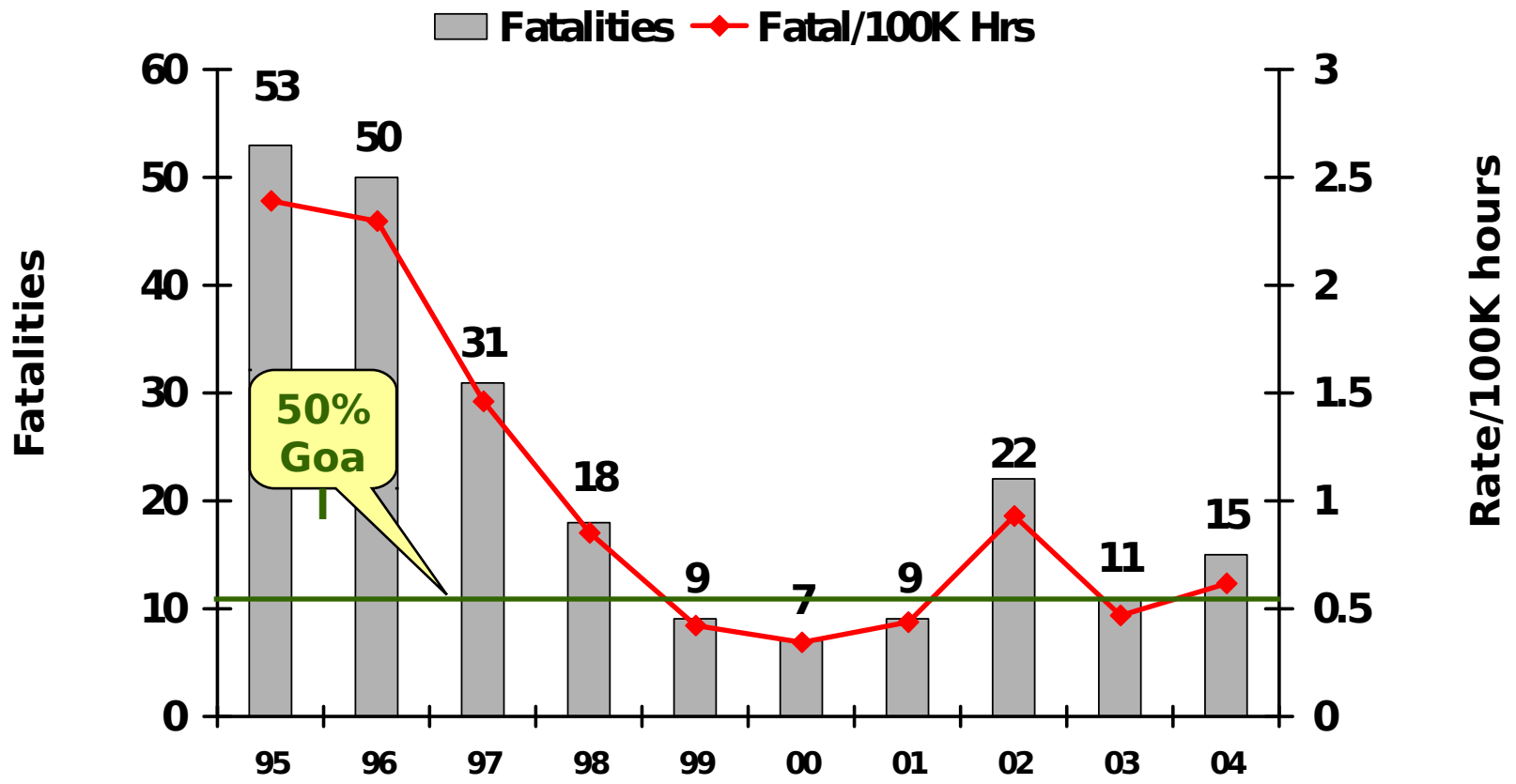
U.S. AIR FORCE

FY04 Aviation Safety Tally

- **15 lives lost**
  - **1 every 24 days**
- **11 aircraft destroyed**
  - **1 every 33 days**
- **38 total Class A mishaps**
  - **1 every 9 days**
- **$499M … $1.3M per day**

Aviation-Related Fatalities

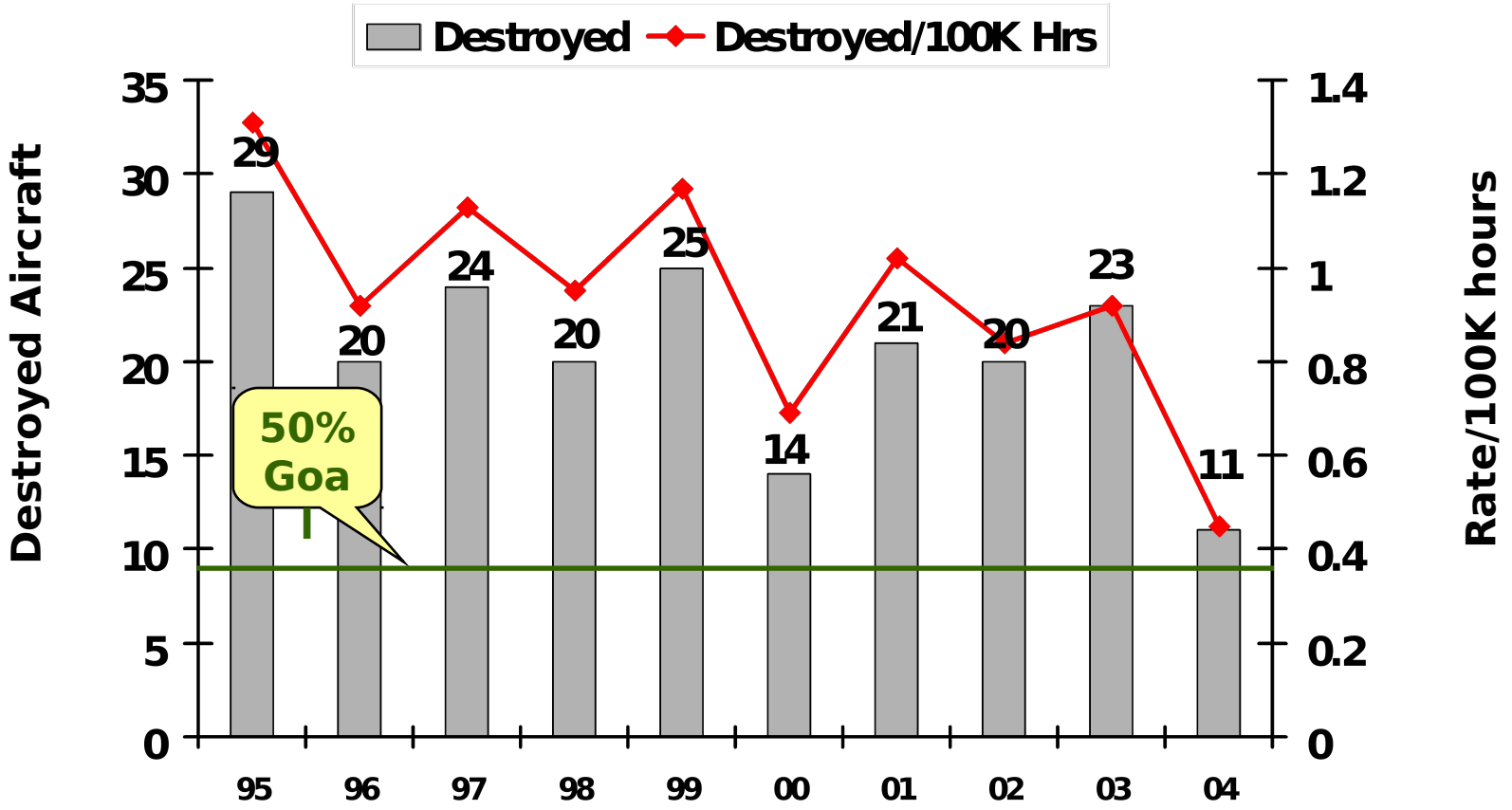
Fatalities / Fatality Rate per 100,000 hours



10-Year Average Annual Fatalities / Fatal Rate: 22.5 / 1.02

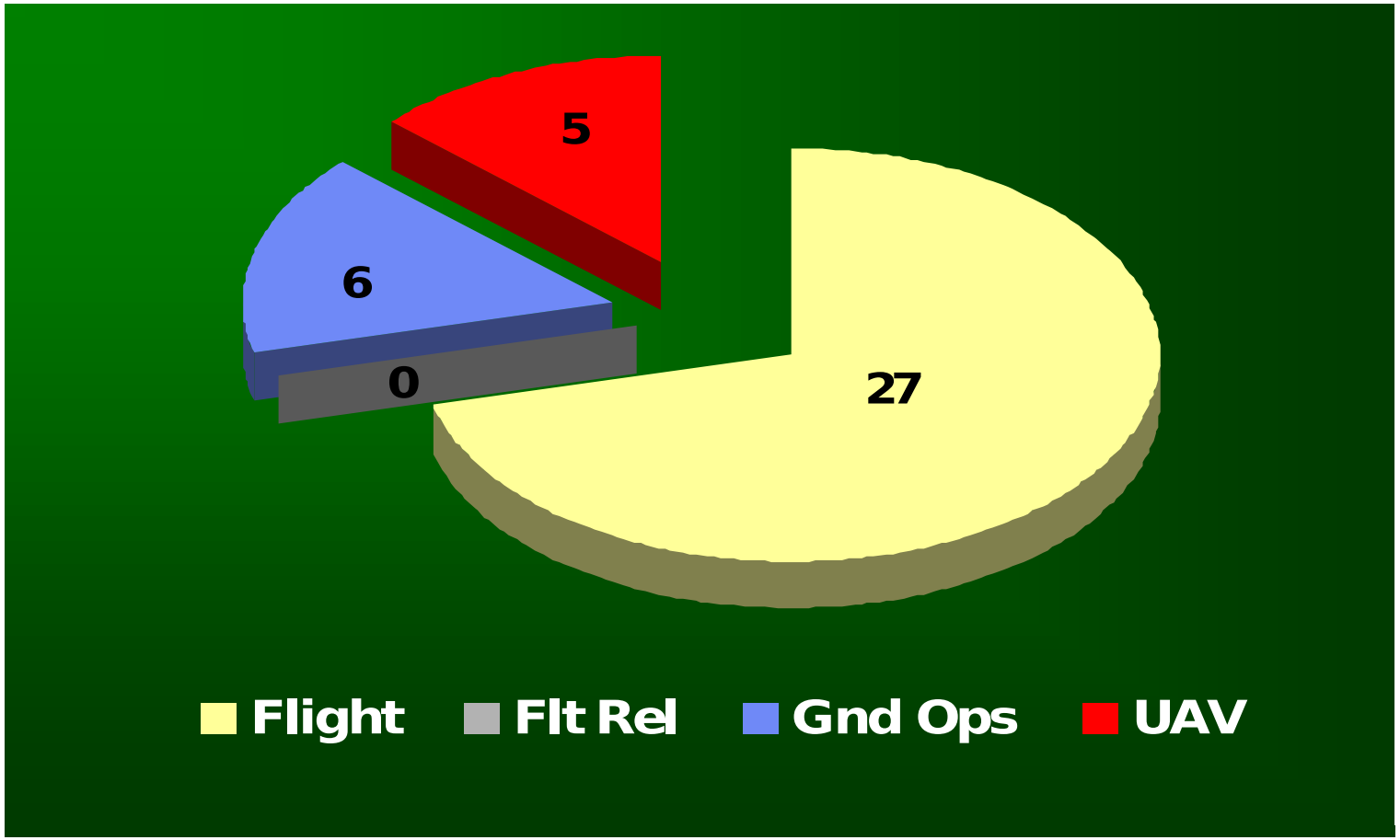
Destroyed Aircraft

Destroyed Aircraft Rate per 100,000 hours



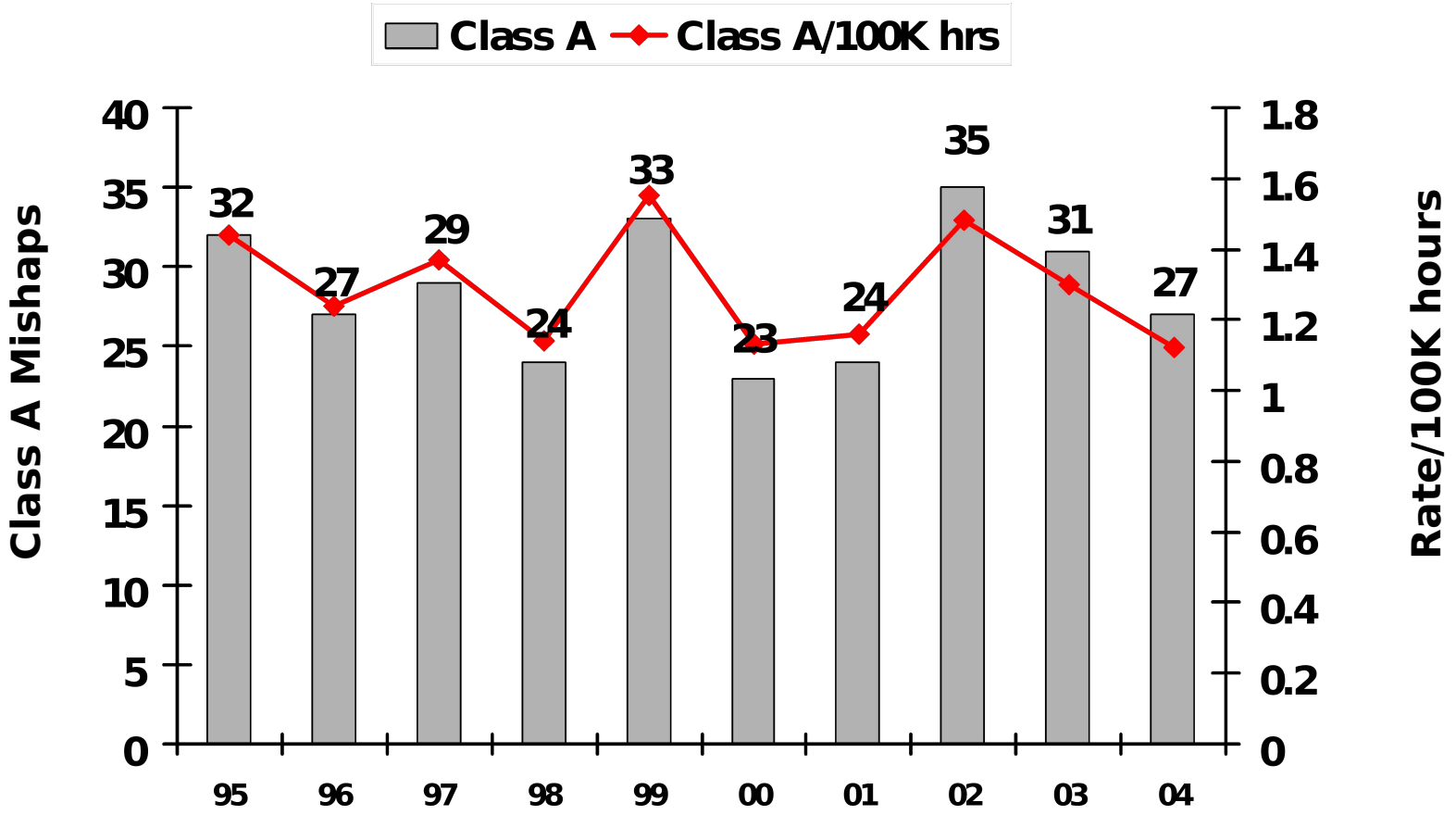
10-Year Average Annual Destroyed / Rate: 20.5 / 0.94

Aviation Class A Mishaps
FY04 by Category



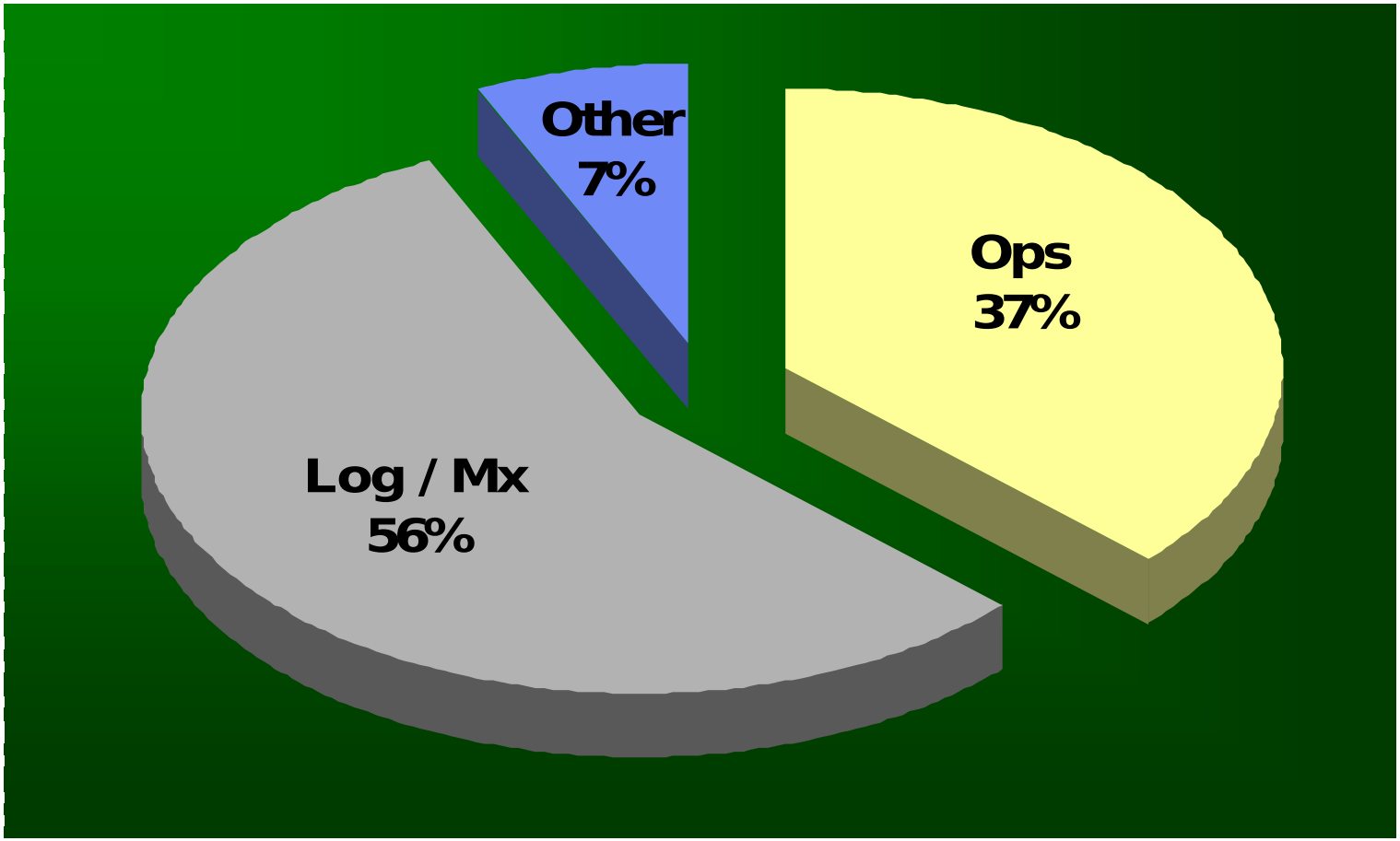
Aviation Flight Class A Mishaps

Class A / Class A Rate per 100,000 hours



10-Yr Avg Annual Flight Class A Mishaps / Class A Rate: 28.4 / 1.29

Aviation Flight Class A Mishaps
FY04 by Cause

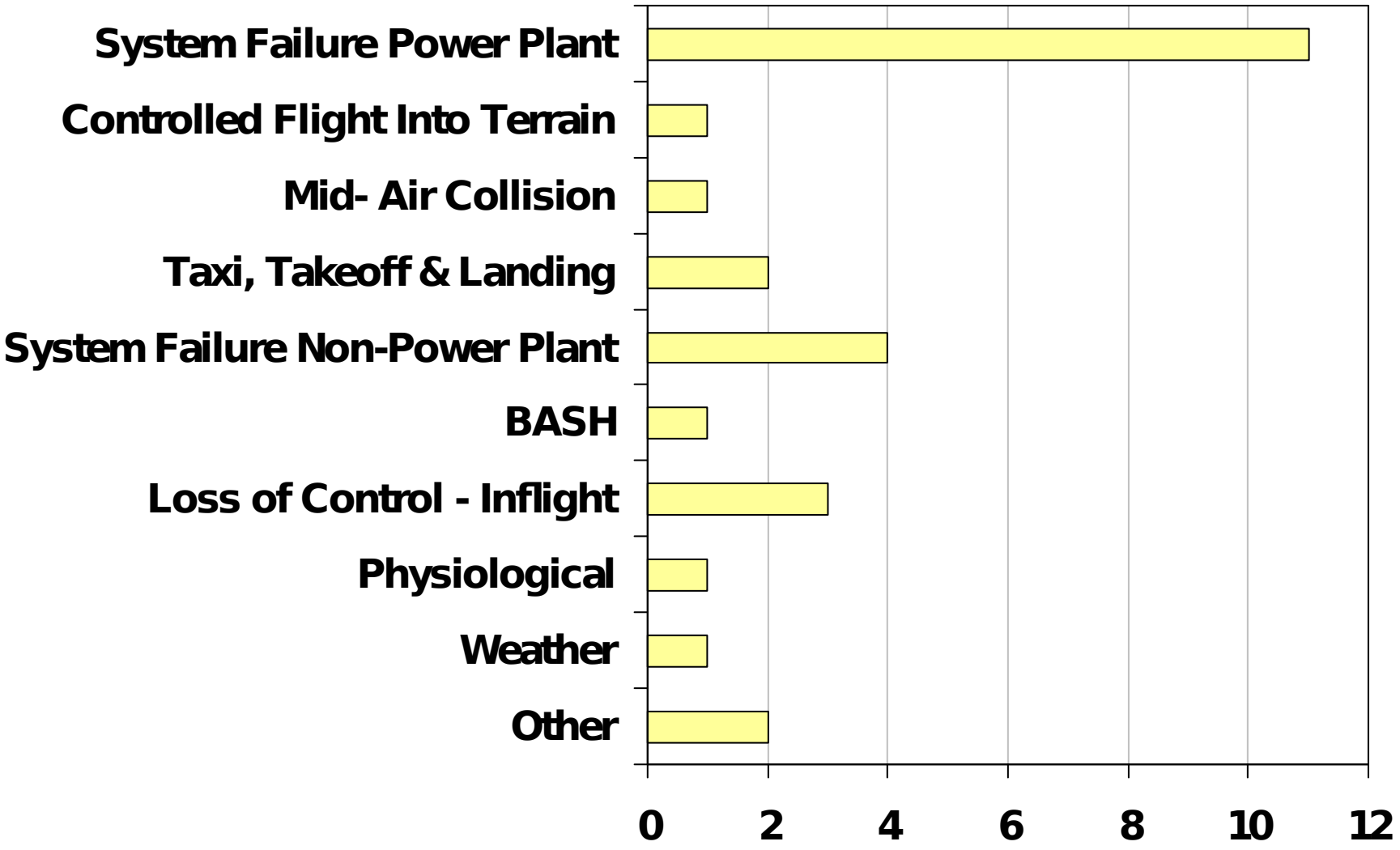


Aviation Flight Class A Mishaps
Percentage by Cause

Type of Mishap	Average FY94 - FY03	FY04
Operations	54	37
Logistics / Maintenance	41	56
Other	5	7
Total	100%	100%

Aviation Flight Class A Mishaps

FY04 by Type



Aviation Flight Class A Mishaps
Percentage by Type

Type of Mishap	Average FY94 - FY03	FY04
Power Plant	30.3	40.7
CFIT	15.3	3.7
Mid-Air Collision	9.3	3.7
Taxi, Takeoff & Landing	8.3	7.4
System	13.0	14.8
BASH	3.3	3.7
LOC Inflight	11.4	11.1
Environment / Wx	0.7	3.7
Physiological	2.3	3.7
Other	6.7	7.4
Total	100%	100%

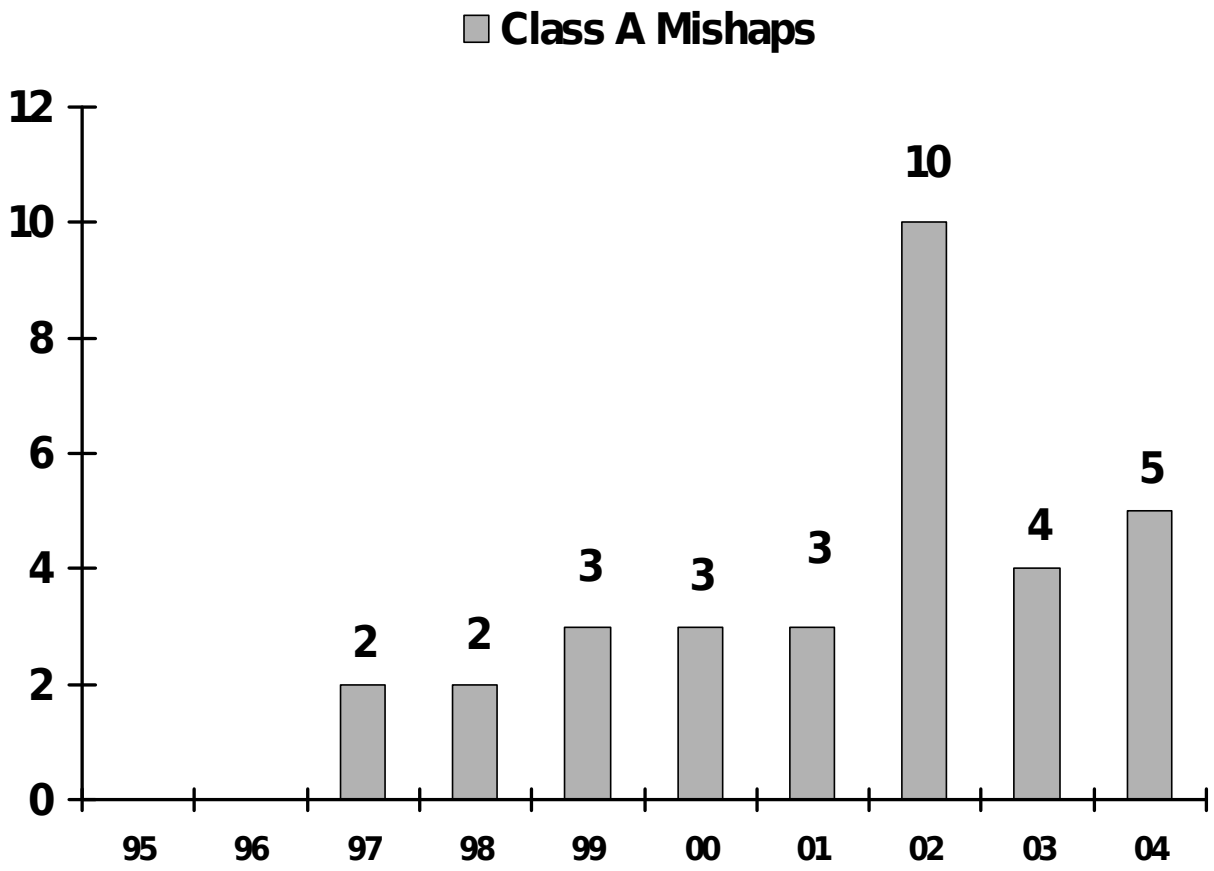
Aviation Flight Mishap Comparisons
FY04 vs FY03

- 4 more total fatalities (15 vs 11)
- 50% fewer destroyed aircraft (11 vs 22)
- 4 less Class A mishaps (27 vs 31)
  - Class A mishap rate (1.12 vs 1.30)
- 21% decrease in ops mishaps
  - 37% (10 of 27) vs 58% (18 of 31)
- 27% increase in log / mx mishaps
  - 56% (15 of 27) vs 29% (9 of 31)

Flight Lessons Re-Learned

- **High correlation of fatalities to operations mishaps**
  - **4 of 5 fatal mishaps were Ops mishaps**
  - **Bad decisions kill people!**
- **Poor leadership decisions**
  - **Accepting wrong risk … risk vs. benefit**
- **Power plant mishaps**
  - **11 of 27 Class As**

Aviation UAV Class A Mishaps



10-Year Average Annual Flight Class A Mishaps: 3.2

Aviation UAV
FY04 Class A Mishaps

- QF-4
- RQ-1
- MQ-1 x 3
- Overall UAV problems
  - Poor system design
  - Lost line of sight (LOS) link, loss of carrier
  - Poor crew coordination
  - Landing mishaps

Aviation Ground Ops
FY04 Class A Mishaps

- **Summary**
  - **F119 Eng … Mis-assembly eng run FOD**
  - **C-5 … Test cell compressor stall**
  - **F-15 … Engine FOD, Mx run**
  - **C-17 … Spoiler activated - fatal**
  - **C-17 … Reverse taxi, 4-engine FOD**
  - **F-15 … Truck hit aircraft**
- **Frequent problem … failure to follow TO**

Aviation Flight-Related
FY04 Class A Mishaps

- **None**

Way Ahead

- **SECDEF … 50% mishap reduction**
- **Priorities for aviation safety**
  - **CFIT**
  - **Powerplant**
  - **Mid-Air Collisions**
  - **Loss of Control – Inflight**
  - **Systems – Non-Powerplant**
  - **BASH**
  - **Object Damage**